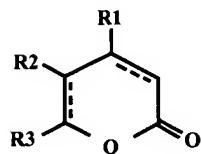


CLAIMS:

Claim 1 (currently amended): A method of ~~chemopreventing reducing the incidence of~~ cancer by administering to a mammal in need thereof ~~a cancer chemopreventive~~ an anticancer composition of matter, comprising an effective anticancer amount of at least one alpha-pyrone kavapyrone compound having the structural formula:



In which R1 is a ~~hydrogen atom or an alkoxy radical having 1 to 4 carbon atoms~~ methoxy group, R2 is a hydrogen atom or a hydroxyl group, and R3 is a styryl or phenethyl radical substituted by one or two methylenedioxy radicals in a physiologically acceptable carrier medium for the purpose of preventing reducing the incidence of cancer sensitive to the formula.

Claim 2 (currently amended): The method of claim 1, comprising in which the composition is a pill.

Claim 3 (currently amended): The method of claim 1, comprising in which the composition is a liquid.

Claim 4 (currently amended): The method of claim 1, comprising in which the composition is a gum.

Claim 5 (currently amended): The method of claim 1, comprising in which the composition is a transdermal patch.

Claim 6 (new): The method of claim 1, wherein said alpha-pyrone compound is one or more of the alpha-pyrone found in the plant *Piper methysticum*.